

Claims (US)

AGR 2000/M 236

1. An oil-in-water emulsion formulation, comprising
 - a) one or more insecticides, in particular pyrethroids;
 - b) one or more solvents from the group of esters of aliphatic monocarboxylic acids, esters of aliphatic dicarboxylic acids, esters of aromatic monocarboxylic acids, esters of aromatic dicarboxylic acids and tri-n-alkylphosphates;
 - c) an emulsifier system comprising one or more anionic surfactants and two or more non ionic surfactants, one of which has a HLB value between 4 and 12 and one of which has a HLB value between 12 and 20;
 - d) one or more film forming agents/thickeners; and
 - e) water.
2. The formulation as claimed in claim 1, wherein the insecticide is a pyrethroid.
3. The formulation as claimed in claim 2, wherein the pyrethroid is deltamethrin.
4. The formulation as claimed in claim 1, comprising a polar cosolvent.
5. The formulation as claimed in claim 1 comprising further additives and/or auxiliaries from the groups of, antifreeze agents, stabilizing agents, antifoams/defoamers, preservatives, colouring agents and odor masking products.
6. The formulation as claimed in claim 1 comprising 0.05 to 200 g/l of the active ingredient(s).
7. A process for producing an oil-in-water emulsion formulation as claimed in claim 1, comprising the steps of
 - A. the preparation of an organic phase containing the insecticide(s), the emulsifier system and optionally further auxiliaries in the organic solvent(s) and optionally a polar co-solvent;

- B. the preparation of an aqueous phase containing water, the film forming agent/thickener and further hydrophilic auxiliaries; and
- C. the mixing of the organic phase and the aqueous phase under high shear to obtain the oil-in-water emulsion.

5

8. The process as claimed in claim 7, wherein the insecticide is a pyrethroid.

9. The process as claimed in claim 8, wherein the pyrethroid is deltamethrin.

10

10. A method of controlling pests comprising applying an aqueous dilution of an oil-in-water emulsion formulation as claimed in claim 1 to the pests or to plants or other locuses infected with or frequented by the pests.

11. The method as claimed in claim 10, wherein the insecticide is a pyrethroid.

12. The method as claimed in claim 11, wherein the pyrethroid is deltamethrin.